

U.S. Application Serial No.: 10/801,416

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Amendments to the Claims:

1-25. (Cancelled)

26. (New) A medical treatment device for treating tissue, comprising:

a radio frequency (RF) generator for providing an RF signal;

a probe coupled to the RF generator for transmitting RF energy from the RF signal into the tissue to be treated, wherein the RF energy is imparted into the tissue to increase its temperature while maintaining a cold junction temperature of the probe, the probe including a sensor for measuring the temperature of the tissue and providing a measured temperature signal; and

a control unit coupled to the RF generator for controlling the RF signal in response to the measured temperature signal from the probe.

27. (New) The medical treatment device of claim 26, wherein the tissue is treated for a physical condition selected from the group consisting of Hypothermia, Actinic Keratosis, Angioma, Acrochordon, Atypical Mycobacteria, Chromoblastomycosis, Cystic Acne, Clavus, Cutaneous Leishmaniasis, Dermatophytosis, Epidermoid Cysts, Fibroma, Hydrocystoma, Keloids, Molluscum Contagiosum, Mycetoma, Seborrheic Keratosis, Sporotrichosis, Syringoma, and Warts.

28. (New) The medical treatment device of claim 26, further including an enclosure housing the RF generator and control

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unit, the enclosure having a control knob for selecting a target temperature, a display for displaying the measured temperature signal, and a connector for connecting the probe.

29. (New) The medical treatment device of claim 26, wherein the RF signal is modulated.

30. (New) The medical treatment device of claim 26, wherein the temperature of the tissue to be treated is ramped up to a target temperature over a period of time, and an indicator signal is generated when the temperature of the tissue reaches the target temperature.

31. (New) The medical treatment device of claim 26, wherein the RF signal is scalable as a function of the tissue to be treated.

32. (New) The medical treatment device of claim 26, wherein the tissue is elevated to a target temperature and held at the target temperature for a predetermined period of time as determined by criteria pertaining to a thermal dose necessary for treatment of the tissue.

33. (New) The medical treatment device of claim 26, wherein the probe includes a high voltage tip and a ground tip.

34. (New) A medical instrument for treating tissue, comprising:

a high frequency energy generator for providing an energy signal;

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a probe coupled to the high frequency energy generator for transmitting the energy signal into the tissue to be treated, wherein the energy signal is imparted into the tissue to increase its temperature while maintaining a cold junction temperature of the probe, the probe including a sensor for measuring the temperature of the tissue and providing a measured temperature signal;

a control unit coupled to the high frequency energy generator for controlling the energy signal in response to the measured temperature signal from the probe to maintain the temperature of the tissue at a target temperature; and

an enclosure housing the high frequency energy generator and control unit, the enclosure having a control knob for selecting the target temperature, a display for displaying the measured temperature signal, and a connector for connecting the probe.

35. (New) The medical instrument of claim 34, wherein the tissue is treated for a physical condition selected from the group consisting of Hypothermia, Actinic Keratosis, Angioma, Acrochordon, Atypical Mycobacteria, Chromoblastomycosis, Cystic Acne, Clavus, Cutaneous Leishmaniasis, Dermatophytosis, Epidermoid Cysts, Fibroma, Hydrocystoma, Keloids, Molluscum Contagiosum, Mycetoma, Seborrheic Keratosis, Sporotrichosis, Syringoma, and Warts.

36. (New) The medical instrument of claim 34, wherein the energy signal is modulated.

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37. (New) The medical instrument of claim 34, wherein the temperature of the tissue to be treated is ramped up to the target temperature over a period of time in response to the energy signal, and an indicator signal is generated when the temperature of the tissue reaches the target temperature.

38. (New) The medical instrument of claim 34, wherein the energy signal is scalable as a function of the tissue to be treated.

39. (New) The medical treatment device of claim 34, wherein the tissue is elevated to a target temperature and held at the target temperature for a predetermined period of time as determined by criteria pertaining to a thermal dose necessary for treatment of the tissue.

40. (New) A medical treatment device for treating tissue, comprising:

an energy generator for providing an energy signal;

a probe having first and second tips coupled to the energy generator for transmitting the energy signal into the tissue to be treated, wherein the energy signal is imparted into the tissue to increase its temperature while maintaining a cold junction temperature of the first and second tips of the probe; and

a control unit coupled to the energy generator for controlling the energy signal.

41. (New) The medical treatment device of claim 40, wherein the probe includes a sensor for measuring the temperature of the

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tissue and providing a measured temperature signal and the control unit controls the energy signal in response to the measured temperature signal from the probe.

42. (New) The medical treatment device of claim 40, wherein the tissue is treated for a physical condition selected from the group consisting of Hypothermia, Actinic Keratosis, Angioma, Acrochordon, Atypical Mycobacteria, Chromoblastomycosis, Cystic Acne, Clavus, Cutaneous Leishmaniasis, Dermatophytosis, Epidermoid Cysts, Fibroma, Hydrocystoma, Keloids, Molluscum Contagiosum, Mycetoma, Seborrheic Keratosis, Sporotrichosis, Syringoma, and Warts.

43. (New) The medical treatment device of claim 40, wherein the energy signal is modulated.

44. (New) The medical instrument of claim 40, wherein the temperature of the tissue to be treated is ramped up to the target temperature over a period of time in response to the energy signal, and an indicator signal is generated when the temperature of the tissue reaches the target temperature.

45. (New) The medical treatment device of claim 40, wherein the energy signal is scalable as a function of the tissue to be treated.

46. (New) A method of treating tissue, comprising:
generating an radio frequency (RF) signal;
transmitting RF energy from the RF signal into the tissue to be treated through a probe, wherein the RF energy is imparted

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into the tissue to increase its temperature while maintaining a cold junction temperature of the probe;

providing a sensor in the probe for measuring the temperature of the tissue and providing a measured temperature signal; and

controlling the RF signal in response to the measured temperature signal from the probe.

47. (New) The method of claim 46, further including modulating the RF signal.

48. (New) The method of claim 46, wherein the tissue is treated for a physical condition selected from the group consisting of Hypothermia, Actinic Keratosis, Angioma, Acrochordon, Atypical Mycobacteria, Chromoblastomycosis, Cystic Acne, Clavus, Cutaneous Leishmaniasis, Dermatophytosis, Epidermoid Cysts, Fibroma, Hydrocystoma, Keloids, Molluscum Contagiosum, Mycetoma, Seborrhic Keratosis, Sporotrichosis, Syringoma, and Warts.

49. (New) The method of claim 46, further including:
elevating the temperature of the tissue to a target temperature; and

holding the tissue at the target temperature for a predetermined period of time as determined by criteria pertaining to a thermal dose necessary for treatment of the tissue.

50. (New) The method of claim 46, further including:

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ramping up the temperature of the tissue to be treated to a target temperature over a period of time; and

generating an indicator signal when the temperature of the tissue reaches the target temperature.